

ABSTRACT

**IMAGE PROCESSING METHOD FOR IMPROVING THE CONTRAST IN  
A DIGITAL DISPLAY PANEL**

The invention relates to a method for processing an image displayed by a display device comprising at least one light source and one light valve. It comprises the following steps:

- applying a compression factor  $C$  to the grey levels of the image video signal that are higher than a threshold value  $NG_1$ , the said threshold value being lower than the peak grey level value ( $NG_{max}$ ) of the image video signal,
- adjusting the luminance of the light produced by the light source to the luminance value corresponding to the peak grey level ( $NG'_{max}$ ) of the image after compression,
- multiplying the video signal delivered to the light valve by an expansion factor  $D$  equal to the ratio of the peak grey level of the image before compression ( $NG_{max}$ ) over the peak grey level of the image after compression ( $NG'_{max}$ ).

FIGURE 3